

**Abstract:**

An electromechanical linear actuator that contains an electric servo motor mounted within a compact housing. A thermally conductive path of travel is provided to efficiently transfer heat out of the housing into the surrounding ambient.

- 5 A further mechanism is provided for holding the stator windings of the motor in undisturbed contact with the inner wall of the housing when the motor is subjected to thermal stress. The motor is arranged to linearly position a push rod through means of a ball screw unit. The ball screw nut and the push rod ride on bearings within guideways to insure that the push rod tracks along a linear path of travel.

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